



IFWO

## RAW SEQUENCE LISTING

DATE: 08/09/2004

PATENT APPLICATION: US/10/679,580A

TIME: 10:30:59

Input Set : A:\224378.ST25.txt

Output Set: N:\CRF4\08092004\J679580A.raw

3 <110> APPLICANT: Usha KASID  
 4 Deepak KUMAR  
 5 Irman AHMAD  
 7 <120> TITLE OF INVENTION: GENE SCC-112 AND DIAGNOSTIC AND THERAPEUTIC USES THEREOF  
 9 <130> FILE REFERENCE: 224378  
 W--> 10 <140> CURRENT APPLICATION NUMBER: US/10/679,580A  
 11 <141> CURRENT FILING DATE: 2003-10-06  
 12 <150> PRIOR APPLICATION NUMBER: PCT/US02/10850  
 13 <151> PRIOR FILING DATE: 2002-04-08  
 15 <150> PRIOR APPLICATION NUMBER: 60/281,780  
 16 <151> PRIOR FILING DATE: 2001-04-06  
 18 <160> NUMBER OF SEQ ID NOS: 3  
 20 <170> SOFTWARE: PatentIn Ver. 3.2  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 6744  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Homo sapiens  
 27 <220> FEATURE:  
 28 <221> NAME/KEY: CDS  
 29 <222> LOCATION: (232)..(4122)  
 31 <400> SEQUENCE: 1  
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 36 gcgtgcgggc gggcgccggg ggtcccggac ggacacaagc gcacacactc ccggaagatc 180  
 38 gcttaccctc cgggggtaaa agagatcacc gacaagatca ccacggacga g atg atc 237  
 39 Met Ile  
 40 1  
 42 aaa cgc ctg aag atg gta gtg aaa acc ttt atg gat atg gat cag gac 285  
 43 Lys Arg Leu Lys Met Val Val Lys Thr Phe Met Asp Met Asp Gln Asp  
 44 5 10 15  
 46 tca gaa gat gaa aaa cag cag tat ctc cca cta gcc ttg cat ctt gca 333  
 47 Ser Glu Asp Glu Lys Gln Gln Tyr Leu Pro Leu Ala Leu His Leu Ala  
 48 20 25 30  
 50 tct gaa ttc ttc ctc agg aac ccc aat aaa gat gtg cgt ctc ctt gta 381  
 51 Ser Glu Phe Phe Leu Arg Asn Pro Asn Lys Asp Val Arg Leu Leu Val  
 52 35 40 45 50  
 54 gca tgt tgt ttg gct gat atc ttt cgt atc tat gcc cca gaa gct cca 429  
 55 Ala Cys Cys Leu Ala Asp Ile Phe Arg Ile Tyr Ala Pro Glu Ala Pro  
 56 55 60 65  
 58 tat act tcc cat gat aaa ctt aag gac ata ttt ttg ttt att acc aga 477  
 59 Tyr Thr Ser His Asp Lys Leu Lys Asp Ile Phe Leu Phe Ile Thr Arg  
 60 70 75 80  
 62 caa tta aaa ggt ttg gag gat aca aag agt cca cag ttt aat aga tac 525

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67	Phe	Tyr	Leu	Leu	Glu	Asn	Leu	Ala	Trp	Val	Lys	Ser	Tyr	Asn	Ile	Cys	
68		100					105					110					
70	ttt	gaa	ttg	gaa	gat	tgc	aat	gaa	att	ttt	att	cag	ctt	ttt	aga	act	621
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74	ctc	ttc	tca	gtg	atc	aac	aat	agc	cac	aat	aag	aag	gta	caa	atg	cac	669
75	Leu	Phe	Ser	Val	Ile	Asn	Asn	Ser	His	Asn	Lys	Lys	Val	Gln	Met	His	
76					135					140					145		
78	atg	cta	gat	ttg	atg	agt	tct	atc	atc	atg	gaa	ggg	gat	gga	gtt	act	717
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84			165					170					175				
86	aac	tta	aat	aaa	cag	tcc	ttt	gac	ctt	gca	aaa	gtg	cta	ttg	aaa	aga	813
87	Asn	Leu	Asn	Lys	Gln	Ser	Phe	Asp	Leu	Ala	Lys	Val	Leu	Leu	Lys	Arg	
88		180					185					190					
90	aca	gtc	cag	act	att	gag	gca	tgc	att	gcc	aat	ttt	ttc	aat	caa	gtc	861
91	Thr	Val	Gln	Thr	Ile	Glu	Ala	Cys	Ile	Ala	Asn	Phe	Phe	Asn	Gln	Val	
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94	ctg	gtg	ctg	gga	aga	tca	tca	gta	agt	gat	ttg	tca	gaa	cat	gta	ttt	909
95	Leu	Val	Leu	Gly	Arg	Ser	Ser	Val	Ser	Asp	Leu	Ser	Glu	His	Val	Phe	
96					215					220				225			
98	gat	ctg	att	cag	gaa	ctt	ttt	gct	ata	gat	cct	cat	tta	tta	tta	tcc	957
99	Asp	Leu	Ile	Gln	Glu	Leu	Phe	Ala	Ile	Asp	Pro	His	Leu	Leu	Leu	Ser	
100				230						235				240			
102	gtc	atg	cca	cag	ctt	gaa	ttc	aaa	cta	aag	agc	aat	gat	gga	gaa	gag	1005
103	Val	Met	Pro	Gln	Leu	Glu	Phe	Lys	Leu	Lys	Ser	Asn	Asp	Gly	Glu	Glu	
104			245					250					255				
106	cga	tta	gct	gtt	gtt	cga	ctt	cta	gct	aaa	ttg	ttt	ggc	tcc	aaa	gat	1053
107	Arg	Leu	Ala	Val	Val	Arg	Leu	Leu	Ala	Lys	Leu	Phe	Gly	Ser	Lys	Asp	
108		260					265					270					
110	tct	gat	ttg	gca	aca	cag	aat	cgt	cct	ctt	tgg	caa	tgt	ttt	ctt	gga	1101
111	Ser	Asp	Leu	Ala	Thr	Gln	Asn	Arg	Pro	Leu	Trp	Gln	Cys	Phe	Leu	Gly	
112	275					280					285				290		
114	cga	ttt	aat	gat	att	cat	gtt	cct	gtg	aga	tta	gaa	agt	gtg	aaa	ttt	1149
115	Arg	Phe	Asn	Asp	Ile	His	Val	Pro	Val	Arg	Leu	Glu	Ser	Val	Lys	Phe	
116					295					300				305			
118	gcc	agt	cat	tgt	tta	atg	aat	cac	cca	gat	tta	gcg	aag	gat	ctc	aca	1197
119	Ala	Ser	His	Cys	Leu	Met	Asn	His	Pro	Asp	Leu	Ala	Lys	Asp	Leu	Thr	
120					310					315				320			
122	gaa	tat	tta	aag	gtt	aga	tca	cat	gat	cca	gaa	gaa	gct	att	cgt	cat	1245
123	Glu	Tyr	Leu	Lys	Val	Arg	Ser	His	Asp	Pro	Glu	Glu	Ala	Ile	Arg	His	
124			325					330					335				
126	gat	gtc	att	gtt	act	ata	ata	aca	gct	gcc	aag	agg	gac	ctg	gcc	tta	1293
127	Asp	Val	Ile	Val	Thr	Ile	Ile	Thr	Ala	Ala	Lys	Arg	Asp	Leu	Ala	Leu	



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195 Ser Pro Asp Thr Ala Ile Arg Ser Gly Leu Glu Leu Leu Lys Val Leu
196 615 620 625
198 tct ttt aca cat cct acc tcg ttc cac tct gca gag aca tat gag tcc 2157
199 Ser Phe Thr His Pro Thr Ser Phe His Ser Ala Glu Thr Tyr Glu Ser
200 630 635 640
202 ttg tta cag tgc cta aga atg gag gat gac aag gta gca gaa gct gct 2205
203 Leu Leu Gln Cys Leu Arg Met Glu Asp Asp Lys Val Ala Glu Ala Ala
204 645 650 655
206 att caa att ttt aga aat aca ggt cac aaa ata gaa aca gac ctt ccc 2253
207 Ile Gln Ile Phe Arg Asn Thr Gly His Lys Ile Glu Thr Asp Leu Pro
208 660 665 670
210 cag ata cga tcg acc tta att ccc att tta cat caa aaa gca aag agg 2301
211 Gln Ile Arg Ser Thr Leu Ile Pro Ile Leu His Gln Lys Ala Lys Arg
212 675 680 685 690
214 ggt act cca cac caa gca aaa cag gct gtg cac tgt ata cac gcc ata 2349
215 Gly Thr Pro His Gln Ala Lys Gln Ala Val His Cys Ile His Ala Ile
216 695 700 705
218 ttc aca aat aaa gaa gtc cag ctt gca cag att ttt gag cca ctc agt 2397
219 Phe Thr Asn Lys Glu Val Gln Leu Ala Gln Ile Phe Glu Pro Leu Ser
220 710 715 720
222 agg agt ctg aat gct gat gtg cca gaa caa ctt ata act cca tta gtt 2445
223 Arg Ser Leu Asn Ala Asp Val Pro Glu Gln Leu Ile Thr Pro Leu Val
224 725 730 735
226 tca ttg ggc cac att tct atg tta gca cca gat cag ttt gct tcc cca 2493
227 Ser Leu Gly His Ile Ser Met Leu Ala Pro Asp Gln Phe Ala Ser Pro
228 740 745 750
230 atg aaa tct gta gta gca aat ttt att gtg aaa gat ctg cta atg aat 2541
231 Met Lys Ser Val Val Ala Asn Phe Ile Val Lys Asp Leu Leu Met Asn
232 755 760 765 770
234 gac agg tca aca ggt gaa aag aat gga aaa ctg tgg tct cca gat gaa 2589
235 Asp Arg Ser Thr Gly Glu Lys Asn Gly Lys Leu Trp Ser Pro Asp Glu
236 775 780 785
238 gag gtt tcc cct gaa gta cta gca aag gta cag gca att aaa ctt ctg 2637
239 Glu Val Ser Pro Glu Val Leu Ala Lys Val Gln Ala Ile Lys Leu Leu
240 790 795 800
242 gta agg tgg ctg ttg ggt atg aaa aac aac cag tct aaa tct gcc aat 2685
243 Val Arg Trp Leu Leu Gly Met Lys Asn Asn Gln Ser Lys Ser Ala Asn
244 805 810 815
246 tca acc ctt cgg tta tta tca gcg atg ttg gtt agt gag ggt gac ctg 2733
247 Ser Thr Leu Arg Leu Leu Ser Ala Met Leu Val Ser Glu Gly Asp Leu
248 820 825 830
250 aca gag caa aag agg atc agt aaa tct gat atg tct cgc ttg cga tta 2781
251 Thr Glu Gln Lys Arg Ile Ser Lys Ser Asp Met Ser Arg Leu Arg Leu
252 835 840 845 850
254 gct gct ggt agt gcc ata atg aag ctt gct cag gaa cct tgt tac cat 2829
255 Ala Ala Gly Ser Ala Ile Met Lys Leu Ala Gln Glu Pro Cys Tyr His
256 855 860 865
258 gaa att att acc cca gaa cag ttt cag ctc tgt gca ctt gtt att aat 2877

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263	Asp	Glu	Cys	Tyr	Gln	Val	Arg	Gln	Ile	Phe	Ala	Gln	Lys	Leu	His	Lys	
264			885					890					895				
266	gca	ctt	gtg	aag	tta	ctg	ctc	cca	ttg	gag	tat	atg	gcg	atc	ttt	gcc	2973
267	Ala	Leu	Val	Lys	Leu	Leu	Leu	Pro	Leu	Glu	Tyr	Met	Ala	Ile	Phe	Ala	
268		900					905					910					
270	ttg	tgt	gcc	aaa	gat	cct	gtg	aag	gag	aga	aga	gca	cac	gca	cga	caa	3021
271	Leu	Cys	Ala	Lys	Asp	Pro	Val	Lys	Glu	Arg	Arg	Ala	His	Ala	Arg	Gln	
272	915					920					925				930		
274	tgt	tta	ctg	aaa	aat	atc	agt	ata	cgc	agg	gaa	tac	att	aag	cag	aat	3069
275	Cys	Leu	Leu	Lys	Asn	Ile	Ser	Ile	Arg	Arg	Glu	Tyr	Ile	Lys	Gln	Asn	
276				935					940				945				
278	cct	atg	gct	act	gag	aaa	tta	tta	tca	ctg	ttg	cct	gaa	tat	gta	gtt	3117
279	Pro	Met	Ala	Thr	Glu	Lys	Leu	Leu	Ser	Leu	Leu	Pro	Glu	Tyr	Val	Val	
280				950					955				960				
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283	Pro	Tyr	Met	Ile	His	Leu	Leu	Ala	His	Asp	Pro	Asp	Phe	Thr	Arg	Ser	
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286	caa	gat	ggt	gat	cag	ctt	cgt	gat	atc	aaa	gag	tgc	cta	tgg	ttc	atg	3213
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291	Leu	Glu	Val	Leu	Met	Thr	Lys	Asn	Glu	Asn	Asn	Ser	His	Ala	Phe	Met	
292	995				1000					1005				1010			
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295	Lys	Lys	Met	Ala	Glu	Asn	Ile	Lys	Leu	Thr	Arg	Asp	Ala	Gln	Ser	Pro	
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298	gat	gaa	tcc	aag	aca	aat	gaa	aaa	ctg	tat	aca	gta	tgt	gat	gtg	gct	3357
299	Asp	Glu	Ser	Lys	Thr	Asn	Glu	Lys	Leu	Tyr	Thr	Val	Cys	Asp	Val	Ala	
300				1030					1035				1040				
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303	Leu	Cys	Val	Ile	Asn	Ser	Lys	Ser	Ala	Leu	Cys	Asn	Ala	Asp	Ser	Pro	
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306	aag	gac	cca	gtc	ctc	cca	atg	aaa	ttt	ttt	aca	caa	cct	gaa	aag	gac	3453
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308		1060				1065					1070						
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311	Phe	Cys	Asn	Asp	Lys	Ser	Tyr	Ile	Ser	Glu	Glu	Thr	Arg	Val	Leu	Leu	
312	1075				1080					1085				1090			
314	tta	aca	gga	aag	cca	aag	cct	gct	gga	gta	cta	ggt	gca	gta	aat	aag	3549
315	Leu	Thr	Gly	Lys	Pro	Lys	Pro	Ala	Gly	Val	Leu	Gly	Ala	Val	Asn	Lys	
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319	Pro	Leu	Ser	Ala	Thr	Gly	Arg	Lys	Pro	Tyr	Val	Arg	Ser	Thr	Gly	Thr	
320				1110					1115				1120				
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3

**VERIFICATION SUMMARY**

DATE: 08/09/2004

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